

#1
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acid-impervious temperature level of the particulate, the adhesive mixture being operative to form an acid-impervious barrier at temperatures above 500°F to mitigate the acid of the part from penetrating therethrough.

#1
H2
20. (Thrice Amended) A metal curing fixture for forming an acid-containing part into a desired shape, the metal curing fixture comprising a steel surface having deposited thereon an adhesive mixture of an acid-impervious polymer particulate and a high curing temperature powder adhesive to adhere the particulate to the steel surface, the adhesive having a curing temperature lower than a maximum acid-impervious temperature level of the particulate, the adhesive mixture being operative to form an acid-impervious barrier at temperatures above 500°F to mitigate the acid of the part from penetrating therethrough.

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Please add the following new claims:

cont
#3
26. (New) A metal structure for forming an acid-containing part into a desired shape, the metal structure comprises a steel surface having deposited thereon a mixture of an acid-impervious polymer particulate and an adhesive, the adhesive having a curing temperature lower than a maximum acid-impervious temperature level of the particulate.

27. (New) The metal structure of Claim 26 wherein the adhesive has a high curing temperature.

28. (New) The metal structure of Claim 27 wherein the adhesive is in powder form.

29. (New) The metal structure of Claim 28 wherein the adhesive mixture is operative to form an acid-impervious barrier at temperatures above 500°F to mitigate the acid of the steel from penetrating therethrough.

30. (New) The metal structure of Claim 29 wherein the mixture adheres the particulate to the steel surface.

31. (New) The metal structure of Claim 26 wherein the curing temperature of the adhesive is greater than a leaching temperature of the part.

32. (New) The metal structure of Claim 31 wherein the adhesive is in powder form.

33. (New) The metal structure of Claim 32 wherein the adhesive mixture is operative to form an acid-impervious barrier above a leaching temperature of the part to mitigate the acid of the steel from penetrating therethrough.

34. (New) The metal structure of Claim 33 wherein the polymer particulate is a polyamide particulate.

35. (New) The metal structure of Claim 34 wherein the powder adhesive is heat curable at a temperature below about 650°F.

36. (New) The metal structure of Claim 35 wherein the acid-impervious particulate has a total surface area of about 0.008 square inches for providing a smooth surface finish.